ABSTRACT

An improved imaging system includes a memory-storage unit, a multiple-dimensional image processor configured to convert information within a multiple-dimensional data set to a two-dimensional representation in a plane orthogonal to an operator-identified view axis, and an image-rendering device configured to display the two-dimensional representation of a volume-of-interest contained within the three-dimensional data set, wherein the two-dimensional representation is responsive to pixel values associated with a faceplate orthogonal to the view axis. A method for viewing information includes identifying a view axis that intersects a multiple-dimensional data set, modifying the multiple-dimensional data set to align the multiple-dimension data set responsive to the view axis, locating a portion of a structure-of-interest along a vector parallel to view axis, associating a set of pixels with a faceplate, and generating a composite view in accordance with the faceplate.